

According to 29 CFR 1910.1200

Revision date October 2015

## SECTION 1: Identification

### 1.1. Identification

Product Name: EUCALYPTUS RADIATA  
CAS-No: 8000-48-4  
Alternate CAS No: 92201-64-4

### 1.2. Recommended use and restrictions on use

Recommended Use: Use of the substance/mixture Industrial uses. Uses of substances as such or in preparations' at industrial sites

### 1.3. Supplier

Camden-Grey Essential Oils, Inc.  
5751 Halifax Ave., Unit 2  
Fort Myers, FL 33912  
www.camdengrey.com

### 1.4. Emergency telephone number

Emergency number: Chemtrec -1.800.424.9300/ 1.703.527.3887 CCN330

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

GHS-US classification

Flam Liq. 3	H226 -	Flammable liquid and vapour.
Skin Irrit 2	H315-	Causes skin irritation.
Skin Sens. 1	H317-	May cause an allergic skin reaction
Asp Tox. 1	H304 -	May be fatal if swallowed and enters airways.
Aquatic Acute 2	H401 -	Toxic to aquatic life
Aquatic Chronic 2	H411 -	Toxic to aquatic life with long lasting effects.

Full text of H statements : see section 16

### 2.2. Label elements GHS-US labelling

Hazard pictograms (GHS-US)



Signal word (GHS-US)

Danger

Hazard statements (GHS-US)

H226 - Flammable liquid and vapour  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H401 - Toxic to aquatic life  
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (GHS-US)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed  
P240 - Ground/Bond container and receiving equipment  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray  
P264 - Wash hands thoroughly after handling

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P272 - Contaminated work clothing must not be allowed out of the workplace  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection  
P301+P310 - IF SWALLOWED Immediately call a POISON CENTER/doctor  
P302+P352 - IF ON SKIN: Wash with plenty of water/ .

P303\*P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P321 - Specific treatment (see supplemental first aid instruction on this label)

P331 - Do NOT induce vomiting.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention, P362 - Take off contaminated clothing,  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use media other than water to extinguish P391 - Collect spillage.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose in a safe manner in accordance with local/national regulations

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Eucalyptol	(CAS-No ) 470-82-6	65-80	Flam Liq 3, H226 Skin Sens. 1B H317
alpha-Terpineol	(CAS-No ) S8-55-5	10-25	Skin Irrit. 2, H315 Eye Irrit. 2. H319
alpha-Pinene	(CAS-No ) 80-56-8	97-10	Flam. Liq. 3. H226 Skin Irrit. 2. H315 Skin Sens 1B. H317 Asp Tox. 1. H304
*d-Limonene	(CAS-No) 5989-27-5	5 - 10	Flam Liq. 3, H226 Skin Irrit. 2. H315 Skin Sens. 1B, H317 Asp Tox 1. H304 Aquatic Acute 1. H400 Aquatic Chronic 1. H410
TERPINENE-4-OL	(CAS-No.) 562-74-3	1 -5	Acute Tox. 4 (Oral). H302 Skin Irrit 2. H315 Eye Irrit. 2. H319
p-Cymene	(CAS-No ) 99-87-6	1 - 5	Flam. Liq. 3, H226 Asp Tox 1, H304 Aquatic Chronic 2, H411

Full Text of H-statements see section 16

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### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general:	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation:	Assure fresh air breathing. Allow the victim to rest.
First measures after skin contact:	Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of water/... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention Specific treatment (see supplemental first aid instruction on this label). If skin irritation or rash occurs
First-aid measures after eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do Continue rinsing. If eye irritation persists: Get medical advice/attention
First-aid measures after ingestion:	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor

#### 4.2. Most Important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	May cause an allergic skin reaction.
Symptoms/effects after skin contact	Causes skin irritation.
Symptoms/effects after eye contact	Causes serious eye irritation
Symptoms/effects after ingestion	May be fatal if swallowed and enters airways.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Fire-fighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder. Foam. Dry powder. Carbon dioxide Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage Store away from other materials

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out

#### 7.2. Conditions for safe storage, including any incompatibilities

<b>Technical measures:</b>	Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Explosion-free electrical equipment and lighting with earth.
<b>Storage Conditions:</b>	Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.
<b>Incompatible Products:</b>	Strong bases. Strong acids.
<b>Incompatible materials:</b>	Sources of ignition. Direct sunlight. Heat sources.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure Controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	Wear protective gloves/protective clothing/eye protection protective gloves.
Eye protection	Chemical goggles or safety glasses.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	[In case of inadequate ventilation] wear respiratory protection
Other information	Do not eat, drink or smoke during use

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colourless
Odour	characteristic
Odour threshold	No data available
pH	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	200 °C
Flash point	124.7 °F
Relative evaporation rate (butylacetate=1)	No data available
Flammability (solid, gas)	No data available
Explosive limits	No data available
Explosive properties	No data available
Oxidising properties	No data available
Vapour pressure	No data available
Relative density	0.92
Relative vapour density at 20 °C	No data available
Solubility	No data available
Log Pow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available

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### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

Not established

### 10.4. Conditions to avoid

Direct sunlight Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

### 10.5. Incompatible materials

Strong acids. Strong bases

### 10.6. Hazardous decomposition products

Fume Carbon monoxide. Carbon monoxide May release flammable gases

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity

Not classified

TERPINENE-4-OL (562-74-3)	
ATE US (oral)	500 mg/kg bodyweight
+d-Limonone (5989-27-5)	
LD50 oral rat	4400 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg bodyweight
ATE US (oral)	4400 mg/kg bodyweight
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Based on available data, the classification criteria are not met
+d-Limonene (5989-27-5)	
IARC group	3 - Not classifiable

Reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

STOT-single exposure

Not classified

STOT-repeated exposure

Not classified

Aspiration hazard

May be fatal if swallowed and enters airways.

Potential adverse human health effects and symptoms

Based on available data, the classification criteria are not met

Symptoms/effects after inhalation

May cause an allergic skin reaction

Symptoms/effects after skin contact

Causes skin irritation.

Symptoms/effects after eye contact

Causes serious eye irritation.

Symptoms/effects after ingestion

May be fatal if swallowed and enters airways.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water

Toxic to aquatic life with long lasting effects.

Eucalyptol (470-82-6)	
LC50 fish 1	102 mg/l (96 h; Pimephales promelas)
Threshold limit other aquatic organisms 1	40.071 mg/l (720 h; Pimephales promelas; QSAR)
alpha-Terpineol (98-55-5)	
LC50 fish 1	10 -100 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
+d-Limonene (5989-27-5)	
LC50 fish 1	720 µg/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 1	0.36 mg/l (48 h. Daphnia magna; GLP)
LC50 fish 2	702 µg/l (96 h; Pimephales promelas)
Threshold limit algae 1	150 mg/l (72 h; Desmodesmus subspicatus; GLP)
Threshold limit algae 2	2.62 mg/l (72 h; Desmodesmus subspicatus)

#### 12.2. Persistence and degradability

EUCALYPTUS RADIATA (8000-48-4)	
I Persistence and degradability	May cause long-term adverse effects in the environment.
Eucalyptol (470-82-6)	
Persistence and degradability	Water: Not biodegradable.
alpha-Terpinool (98-55-5)	
Persistence and degradability	Readily biodegradable in water, easily degradable in the soil.
ThOD	2.9 g O <sub>2</sub> /g substance
TERPINENE-4-OL (562-74-3)	
Persistence and degradability	Not established.
+d-Limonono (5989-27-5)	
Persistence and degradability	Readily biodegradable in water. Adsorbs into the soil. May cause long-term adverse effects in the environment.
ThOD	3.29 g O <sub>2</sub> /g substance
alpha-Pinene (80-56-8)	
Persistence and degradability	Not established.
p-Cymene (99-87-6)	
Persistence and degradability	May cause long-term adverse effects in the environment.

#### 12.3. Bioaccumulative potential

EUCALYPTUS RADIATA (8000-48-4)	
Bioaccumulative potential	Not established.
Eucalyptol (470-82-6)	
Log Pow	1.84 (Calculated)
Bioaccumulative potential	Low bioaccumulation potential.
alpha-Terpinool (98-55-5)	
Log Pow	2.57 (Estimated value)
Bioaccumulative potential	Low bioaccumulation potential.
TERPINENE-4-OL (562-74-3)	
Bioaccumulative potential	Not established.
+d-Limonene (5989-27-5)	
3CF fish 1	864.8 - 1022 (Pisces; Fresh weight)
Log Pow	4.38 (Experimental value; OECD 117 Partition Coefficient (n-octanol/water). HPLC method; 37 °C)
Bioaccumulative potential	Bioaccumulative potential. Not established.
alpha-Pinene (80-56-8)	
Bioaccumulative potential	Not established.
p-Cymene (99-87-6)	
Bioaccumulative potential	Not established.

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### 12.4. Mobility in soil

No additional information available

### 12.5. Result of the PBT and vPvB assessment

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials Avoid release to the environment. Hazardous waste due to toxicity.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

### Transportation of Dangerous Goods

No additional information available

### Transport by sea

UN-No. (IMDG) : 1169  
Proper Shipping Name (IMDG) : EXTRACTS, AROMATIC, LIQUID  
Class (IMDG) : 3 - Flammable liquids  
Packing group (IMDG) : III - substances presenting low danger  
MFAG-No : 127:128

**Air transport UN-No (IATA)** : 1169  
Proper Shipping Name (IATA) : Extracts, aromatic, liquid  
Class (IATA) : 3 - Flammable Liquids III - Minor Danger  
Packing group (IATA) : Flammable liquids  
Civil Aeronautics Law

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

EUCALYPTUS RADIATA (8000-48-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Eucalyptol (470-82-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
alpha-Terpineol (98-55-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
TERPINENE-4-OL (562-74-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
+d-Limonene (5989-27-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
alpha-Pinene (80-56-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
p-Cymene (99-87-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

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### 15.2. International regulations

#### CANADA

Eucalyptol (470-82-6)
Listed on the Canadian DSL (Domestic Substances List)

p-Cymene (99-87-6)
Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

### SECTION 16: Other information

Data sources: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 None.

Other information:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects.

Hazard Rating	1 Slight Hazard - Irritation or minor reversible injury possible 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Health	
Flammability	0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Physical	B
Personal protection	B - Safety glasses, Gloves

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